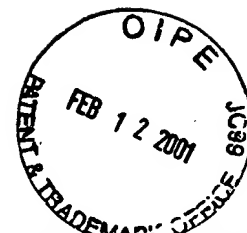


# Declaration for Patent Application



LTI Ref: 214.1

Docket Number: 0942.4630001/RWE/BJD

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled Metal Binding Compounds and Their Use in Cell Culture Medium Compositions, the specification of which is attached hereto unless the following box is checked:

- ☒ was filed on August 28, 2000;  
as United States Application Number or PCT International Application Number 09/650,339; and  
was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

☐ Yes ☐ No

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐ Yes ☐ No

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/151,055  
(Application No.)

August 27, 1999  
(Filing Date)

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status - patented, pending, abandoned)

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status - patented, pending, abandoned)

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934

Direct Telephone Calls to:

(202) 371-2600

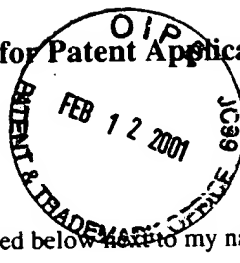
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	David A. EPSTEIN
Signature of sole or first inventor ✓	<i>David A. Epstein</i> Date <i>January 23, 2007</i> ✓
Residence	East Amherst, NY
Citizenship	USA
Mailing Address	7 Shady Grove Drive
	East Amherst, NY 14051
Full name of second inventor	Paul J. BATTISTA
Signature of second inventor ✓	Date ✓
Residence	Egbertsville, NY
Citizenship	USA
Mailing Address	55 Endicott Drive
	Egbertsville, NY 14226
Full name of third inventor	Dale F. GRUBER
Signature of third inventor ✓	Date ✓
Residence	Grand Island, NY
Citizenship	USA
Mailing Address	3175 Staley Road
	Grand Island, NY 14072

Appl. No.: 09/650,339  
LTI Ref: 214.1  
Docket Number: 0942.4630001/RWE/BJD

Full name of fourth inventor	David A. Judd
Signature of fourth inventor ✓	Date ✓
Residence	Williamsville, NY
Citizenship	USA
Mailing Address	148 Ferndale Road
	Williamsville, NY 14221
Full name of fifth inventor	
Signature of fifth inventor	Date
Residence	
Citizenship	
Mailing Address	

# Declaration for Patent Application



LTI Ref: 214.1

Docket Number: 0942.4630001/RWE/BJD

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled Metal Binding Compounds and Their Use in Cell Culture Medium Compositions, the specification of which is attached hereto unless the following box is checked:

- ☒ was filed on August 28, 2000;  
as United States Application Number or PCT International Application Number 09/650,339; and  
was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐ Yes ☐ No

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐ Yes ☐ No

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/151,055  
(Application No.)

August 27, 1999  
(Filing Date)

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status - patented, pending, abandoned)

\_\_\_\_\_  
(Application No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status - patented, pending, abandoned)

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934

Direct Telephone Calls to:

(202) 371-2600

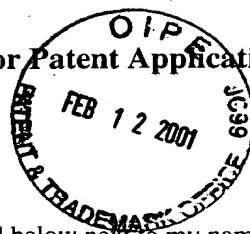
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	David A. EPSTEIN
Signature of sole or first inventor ✓	Date ✓
Residence	East Amherst, NY
Citizenship	USA
Mailing Address	7 Shady Grove Drive
	East Amherst, NY 14051
Full name of second inventor	Paul J. BATTISTA
Signature of second inventor ✓ <i>Paul J. Battista</i>	Date ✓ <i>1/23/01</i>
Residence	Eggertsville, NY
Citizenship	USA
Mailing Address	55 Endicott Drive
	Eggertsville, NY 14226
Full name of third inventor	Dale F. GRUBER
Signature of third inventor ✓	Date ✓
Residence	Grand Island, NY
Citizenship	USA
Mailing Address	3175 Staley Road
	Grand Island, NY 14072

Appl. No.: 09/650,339  
LTI Ref: 214.1  
Docket Number: 0942.4630001/RWE/BJD

Full name of fourth inventor	David A. Judd
Signature of fourth inventor ✓	Date ✓
Residence	Williamsville, NY
Citizenship	USA
Mailing Address	148 Ferndale Road
	Williamsville, NY 14221
Full name of fifth inventor	
Signature of fifth inventor	
Date	
Residence	
Citizenship	
Mailing Address	

# Declaration for Patent Application



LTI Ref: 214.1

Docket Number: 0942.4630001/RWE/BJD

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled Metal Binding Compounds and Their Use in Cell Culture Medium Compositions, the specification of which is attached hereto unless the following box is checked:

- ☒ was filed on August 28, 2000;  
as United States Application Number or PCT International Application Number 09/650,339; and  
was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)			Priority Claimed
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
(Application No.)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
(Application No.)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

<u>60/151,055</u>	<u>August 27, 1999</u>
(Application No.)	(Filing Date)
_____	_____
(Application No.)	(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

_____	_____	_____
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)
_____	_____	_____
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)

Send Correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
 1100 New York Avenue, N.W.  
 Suite 600  
 Washington, D.C. 20005-3934

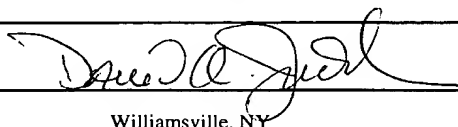
Direct Telephone Calls to:

(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	David A. EPSTEIN	
Signature of sole or first inventor ✓		Date ✓
Residence	East Amherst, NY	
Citizenship	USA	
Mailing Address	7 Shady Grove Drive	
	East Amherst, NY 14051	
Full name of second inventor	Paul J. BATTISTA	
Signature of second inventor ✓		Date ✓
Residence	Eggertsville, NY	
Citizenship	USA	
Mailing Address	55 Endicott Drive	
	Eggertsville, NY 14226	
Full name of third inventor	Dale F. GRUBER	
Signature of third inventor ✓ <i>Dale F. Gruber</i>		Date ✓ <i>January 18, 2001</i>
Residence <i>EAST AMHERST</i>	<del>Grand Island, NY</del>	
Citizenship	USA	
Mailing Address <i>92 CHESHIRE LANE</i>	<del>3175 Staley Road</del>	
<i>EAST AMHERST NY</i>	<del>Grand Island, NY 14072</del> <i>14051</i>	



Full name of fourth inventor	David A. Judd
Signature of fourth inventor ✓	 Jan, 13, 2010 ✓ Date ✓
Residence	Williamsville, NY
Citizenship	USA
Mailing Address	148 Ferndale Road
	Williamsville, NY 14221
Full name of fifth inventor	
Signature of fifth inventor	Date
Residence	
Citizenship	
Mailing Address	

**POWER OF ATTORNEY FROM ASSIGNEE**



LIT Ref: 214.1

Docket Number: 0942.4630001/RWE/BJD

Invitrogen Corporation, a corporation of Delaware, having a principal place of business at 1600 Faraday Avenue, Carlsbad, CA 92008, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on Jan 18 and 23, 2001 of an invention known as Metal Binding Compounds and Their Use in Cell Culture Medium Compositions (Attorney Docket No. 0942.4630001/RWE/BJD), which is disclosed and claimed in a patent application of the same title by the inventor(s) David A. EPSTEIN, Paul J. BATTISTA, Dale F. GRUBER, and David A. JUDD (said application filed on August 28, 2000 at the U.S. Patent and Trademark Office, having Application Number 09/650,339).

*Rule  
Reg. No.  
32,893*

The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934  
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Invitrogen Corporation

SIGNATURE: ✓ Alan W. Hammond

BY: Alan W. Hammond

TITLE: Chief Intellectual Property Counsel

DATE: ✓ 1/25/2001

Certificate Under 37 C.F.R. § 3.73(b)



SKGF Ref: 0942.4630001/RWE/BJD

Applicant/Patent Owner: David A. EPSTEIN, Paul J. BATTISTA, Dale F. GRUBER, and David A. JUDD

Application No./Patent No.: 09/650,339 Filed/Issue Date: August 28, 2000

Entitled: Metal Binding Compounds and Their Use in Cell Culture Medium Compositions

Invitrogen Corporation, a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest, or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

**[NOTE:** A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 1/25/2001

Name: Alan W. Hammond

Title: Chief Intellectual Property Counsel

Signature: Alan Hammond

# COPY

**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**

## ASSIGNMENT

**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**

LTI Ref: 214.1  
SKGF Ref: 0942.4630001/RWE/BJD

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): David A. EPSTEIN, Paul J. BATTISTA, Dale F. GRUBER, and David A. JUDD, the undersigned inventor(s) hereby sell(s) and assign(s) to Invitrogen Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Metal Binding Compounds and Their Use in Cell Culture Medium Compositions for which application(s) for patent in the United States of America has (have) been executed by the undersigned on Jan. 18 and 23, 2001  
(also known as United States Application No. 09/650,339, filed August 28, 2000), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

RUE Reg No.  
32,843

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W.

Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: ✓ \_\_\_\_\_ Signature of Inventor: ✓ \_\_\_\_\_  
David A. EPSTEIN

Date: ✓ \_\_\_\_\_ Signature of Inventor: ✓ \_\_\_\_\_  
Paul J. BATTISTA

Date: ✓ January 18, 2001 Signature of Inventor: ✓ [Signature]  
Dale F. GRUBER

Date: ✓ Jan 18, 2001 Signature of Inventor: ✓ [Signature]  
David A. JUDD

**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

COPY

ASSIGNMENT

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

LTI Ref: 214.1  
SKGF Ref: 0942.4630001/RWE/BJD

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): David A. EPSTEIN, Paul J. BATTISTA, Dale F. GRUBER, and David A. JUDD, the undersigned inventor(s) hereby sell(s) and assign(s) to Invitrogen Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Metal Binding Compounds and Their Use in Cell Culture Medium Compositions for which application(s) for patent in the United States of America has (have) been executed by the undersigned on Jan 18 and 23, 2001, (also known as United States Application No. 09/650,339, filed August 28, 2000), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

RWE  
Reg No.  
21,843

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W.

Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: ✓ _____	Signature of Inventor: ✓ _____ David A. EPSTEIN
Date: ✓ 1/23/01	Signature of Inventor: ✓ <i>Paul J. Battista</i> Paul J. BATTISTA
Date: ✓ _____	Signature of Inventor: ✓ _____ Dale F. GRUBER
Date: ✓ _____	Signature of Inventor: ✓ _____ David A. JUDD

**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**

COPY  
ASSIGNMENT

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION

LTI Ref: 214.1  
SKGF Ref: 0942.4630001/RWE/BJD

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): David A. EPSTEIN, Paul J. BATTISTA, Dale F. GRUBER, and David A. JUDD, the undersigned inventor(s) hereby sell(s) and assign(s) to Invitrogen Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Metal Binding Compounds and Their Use in Cell Culture Medium Compositions for which application(s) for patent in the United States of America has (have) been executed by the undersigned on January 23, 2001 and Jan 18, 2001 (also known as United States Application No. 09/650,339, filed August 28, 2000), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

RWE  
Reg. No.  
32,893

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W.



Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: January 23, 2001 Signature of Inventor: David A. Epstein  
David A. EPSTEIN

Date: ✓ Signature of Inventor: ✓  
Paul J. BATTISTA

Date: ✓ Signature of Inventor: ✓  
Dale F. GRUBER

Date: ✓ Signature of Inventor: ✓  
David A. JUDD

**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**